

CLAIMS

1. A light diffusion sheet comprising:
- a transparent base sheet;
- a light diffusion layer laminated on a surface of the base sheet and  
5 containing beads dispersed within a binder; and
- a sticking-inhibiting layer laminated on a rear face of the base sheet,  
wherein the binder of the light diffusion layer contains a thermosetting  
resin and the sticking-inhibiting layer is a resin layer containing  
an ionizing radiation-curable resin.
- 10 2. A light diffusion sheet according to claim 1, wherein said  
sticking-inhibiting layer is a flat resin layer.
3. A light diffusion sheet according to claim 1, wherein said  
sticking-inhibiting layer contains beads dispersed therein.
4. A light diffusion sheet according to claim 1, wherein said  
15 ionizing radiation-curable resin is an ultraviolet-curable resin.
5. A light diffusion sheet according to claim 4, wherein said  
ultraviolet-curable resin is so formed as to have a glass-transition temperature(Tg)  
of 20°C to 50°C.
6. A light diffusion sheet according to claim 4, wherein said  
20 ultraviolet-curable resin is so formed as to have a glass-transition temperature(Tg)  
of 50°C to 150°C.

7. A light diffusion sheet according to claim 1, wherein the light diffusion layer further contains wax particles dispersed within the binder.

8. A light diffusion sheet according to claim 1, wherein said sticking-inhibiting layer further contains wax particles dispersed within the resin layer.

9. A light diffusion sheet according to claim 7, wherein the particles of said wax project from the surface of the binder.

10. A light diffusion sheet according to claim 8, wherein the particles of said wax project from the surface of the resin layer.

11. A light diffusion sheet according to claim 7, wherein the average particle size of the wax is within the range of from 1 to 25  $\mu\text{m}$ .

12. A light diffusion sheet according to claim 8, wherein the average particle size of the wax is within the range of from 1 to 25  $\mu\text{m}$ .

13. A light diffusion sheet according to claim 7, wherein the amount of the wax contained in the light diffusion layer is within the range of from 0.5 to 5 wt% based on the weight of the binder.

14. A light diffusion sheet according to claim 8, wherein the amount of the wax contained in the sticking-inhibiting layer is within the range of from 0.5 to 5 wt% based on the weight of the resin layer.

15. A light diffusion sheet according to claim 7, wherein said wax is selected from the group consisting of polyethylene wax, polypropylene wax, polytetrafluoroethylene wax and the combinations of these waxes.

16. A light diffusion sheet according to claim 8, wherein said wax is selected from the group consisting of polyethylene wax, polypropylene wax, polytetrafluoroethylene wax and the combinations of these waxes.

17. A light diffusion sheet according to claim 1, wherein said light diffusion layer further contains micro inorganic filler particles dispersed within the binder.

18. A light diffusion sheet according to claim 1, wherein said sticking-inhibiting layer further contains micro inorganic filler particles dispersed within the resin layer.

19. A light diffusion sheet according to claim 17, wherein the average particle diameter of said micro inorganic filler is within the range of from 5 nm to 1  $\mu$ m.

20. A light diffusion sheet according to claim 18, wherein the average particle diameter of said micro inorganic filler is within the range of from 5 nm to 1  $\mu$ m.

21. A light diffusion sheet according to claim 17, wherein the amount of the micro inorganic filler is 10 to 500 parts by weight per 100 parts of the polymer of the light diffusion layer or the sticking-inhibiting layer.

22. A light diffusion sheet according to claim 18, wherein the amount of the micro inorganic filler is 10 to 500 parts by weight per 100 parts of the polymer of the light diffusion layer or the sticking-inhibiting layer.

23. A light diffusion sheet according to claim 17, wherein said  
5 micro inorganic filler is colloidal silica.

24. A light diffusion sheet according to claim 18, wherein said micro inorganic filler is colloidal silica.

25. A backlight unit for use in a liquid crystal display, the unit comprising a lamp; a light guide plate disposed beside the lamp for guiding light  
10 beams to a front side of the light guide plate, the light beams having been emitted from the lamp; and the light diffusion sheet of claim 1 and disposed on the front side of the light guide plate.

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